



User: David Kaufmann

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log type: smcl
name: <unnamed>
log: \\d.ethz.ch\groups\baug\irl\spur_kadavid\Publikationen\4 Sanctuary cities in Europe\01_Paper\Stata\Sand
> ope.smcl
log type: smcl
opened on: 25 May 2021, 12:18:53

1 .
2 .
3 .
4 . cd "\\d.ethz.ch\groups\baug\irl\spur_kadavid\Publikationen\4 Sanctuary cities in Europe\01_Paper\Stata"
   \\d.ethz.ch\groups\baug\irl\spur_kadavid\Publikationen\4 Sanctuary cities in Europe\01_Paper\Stata

5 .
6 .
7 .
8 . clear

9 . insheet using basic.csv, c
   (17 vars, 95 obs)

10 . save basic.dta, replace
    file basic.dta saved

11 . clear

12 . use basic.dta

13 .
14 .
15 . *****
16 . *** 1. Descriptive statistics*****
17 . *****
18 .
19 . recode nothing (0=1) (1=0), gen(policy)
   (95 differences between nothing and policy)

20 .
21 .
22 .
23 . histogram status, frequency kdensity
   (bin=9, start=0, width=.1111111)

24 . histogram services, frequency kdensity
   (bin=9, start=0, width=.1111111)

25 . histogram population, frequency kdensity
   (bin=9, start=358670, width=1064845.9)

26 . histogram city_state, frequency kdensity
   (bin=9, start=0, width=.1111111)

27 . histogram foreign_pop, frequency kdensity
   (bin=9, start=.1, width=3.911111)

28 . histogram mayor_lr, frequency kdensity
   (bin=9, start=.2857143, width=.85714286)

29 . histogram gdp_pc, frequency kdensity
   (bin=9, start=24231, width=6801.5556)
```

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30 .
31 .
32 . ***logarithmic function***
33 . gen log_population=ln(population)

34 . gen log_gdp_pc=ln(gdp_pc)
    (1 missing value generated)

35 .
36 . histogram log_population, frequency kdensity
    (bin=9, start=12.790158, width=.36912759)

37 . histogram log_gdp_pc, frequency kdensity
    (bin=9, start=10.095388, width=.14002662)

38 .
39 . ***Recode GDP_pc***
40 . gen gdp_pc1000=gdp_pc/1000
    (1 missing value generated)

41 .
42 .
43 .
44 .
45 . *****
46 . *** 2. Regressions *****
47 . *****
48 .
49 .
50 . ***Model 1, all policies***
51 . logit policy log_population foreign_pop mayor_lr, vce(cluster n_cntry)

```

```

Iteration 0: log pseudolikelihood = -55.106837
Iteration 1: log pseudolikelihood = -50.120487
Iteration 2: log pseudolikelihood = -49.987889
Iteration 3: log pseudolikelihood = -49.987445
Iteration 4: log pseudolikelihood = -49.987445

```

```

Logistic regression                Number of obs    =      93
                                   Wald chi2(3)      =      8.34
                                   Prob > chi2       =     0.0396
Log pseudolikelihood = -49.987445  Pseudo R2       =     0.0929

```

(Std. Err. adjusted for 19 clusters in n_cntry)

policy	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
log_population	.2350548	.3271546	0.72	0.472	-.4061565	.876266
foreign_pop	.0790469	.042009	1.88	0.060	-.0032892	.161383
mayor_lr	-.1789268	.1486813	-1.20	0.229	-.4703367	.1124832
_cons	-4.394628	4.368404	-1.01	0.314	-12.95654	4.167286

```

52 . logit policy gdp_pc1000 foreign_pop mayor_lr, vce(cluster n_cntry)

```

```

Iteration 0: log pseudolikelihood = -54.776826
Iteration 1: log pseudolikelihood = -47.27421
Iteration 2: log pseudolikelihood = -47.047212
Iteration 3: log pseudolikelihood = -47.046468
Iteration 4: log pseudolikelihood = -47.046468

```

```

Logistic regression                Number of obs    =      92
                                   Wald chi2(3)      =     16.21
                                   Prob > chi2       =     0.0010
Log pseudolikelihood = -47.046468  Pseudo R2       =     0.1411

```

(Std. Err. adjusted for 19 clusters in n_centry)

policy	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
gdp_pc1000	.0570137	.0249638	2.28	0.022	.0080856	.1059417
foreign_pop	.0071119	.0504975	0.14	0.888	-.0918615	.1060852
mayor_lr	-.236683	.1580191	-1.50	0.134	-.5463948	.0730288
_cons	-2.67366	1.588524	-1.68	0.092	-5.787109	.4397887

```
53 .
54 . vif, uncentered
```

Variable	VIF	1/VIF
gdp_pc1000	14.19	0.070469
foreign_pop	7.37	0.135774
mayor_lr	4.72	0.211939
Mean VIF	8.76	

```
55 .
56 .
57 . ***Model 2, service policies***
58 . *These are the models that I use
59 . logit services log_population foreign_pop mayor_lr, vce(cluster n_centry)
```

```
Iteration 0: log pseudolikelihood = -53.105112
Iteration 1: log pseudolikelihood = -47.52249
Iteration 2: log pseudolikelihood = -47.323706
Iteration 3: log pseudolikelihood = -47.32296
Iteration 4: log pseudolikelihood = -47.32296
```

```
Logistic regression            Number of obs   =     93
                               Wald chi2(3)      =     7.96
                               Prob > chi2         =    0.0469
Log pseudolikelihood = -47.32296    Pseudo R2      =    0.1089
```

(Std. Err. adjusted for 19 clusters in n_centry)

services	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
log_population	.2717024	.3569441	0.76	0.447	-.4278951	.9712999
foreign_pop	.0900028	.0441864	2.04	0.042	.0033991	.1766065
mayor_lr	-.1787259	.1615528	-1.11	0.269	-.4953636	.1379118
_cons	-5.172255	4.944523	-1.05	0.296	-14.86334	4.518832

```
60 . logit services gdp_pc1000 foreign_pop mayor_lr, vce(cluster n_centry)
```

```
Iteration 0: log pseudolikelihood = -52.804733
Iteration 1: log pseudolikelihood = -42.98683
Iteration 2: log pseudolikelihood = -42.544725
Iteration 3: log pseudolikelihood = -42.543584
Iteration 4: log pseudolikelihood = -42.543584
```

```
Logistic regression            Number of obs   =     92
                               Wald chi2(3)      =    29.52
                               Prob > chi2         =    0.0000
Log pseudolikelihood = -42.543584    Pseudo R2      =    0.1943
```

(Std. Err. adjusted for 19 clusters in n_centry)

services	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
gdp_pc1000	.0773643	.0176777	4.38	0.000	.0427166	.112012
foreign_pop	-.0055527	.051222	-0.11	0.914	-.105946	.0948407
mayor_lr	-.2524312	.1905618	-1.32	0.185	-.6259255	.1210632
_cons	-3.570216	1.507849	-2.37	0.018	-6.525546	-.6148869

61 .
62 . vif, uncentered

Variable	VIF	1/VIF
gdp_pc1000	14.19	0.070469
foreign_pop	7.37	0.135774
mayor_lr	4.72	0.211939
Mean VIF	8.76	

63 .
64 .
65 . *** Correlation Table ***
66 . corr policy status services population gdp_pc foreign_pop mayor_lr city_state
(obs=92)

	policy	status	services	popula~n	gdp_pc	foreign~p	mayor_lr	city_s~e
policy	1.0000							
status	0.3820	1.0000						
services	0.9465	0.1851	1.0000					
population	0.0540	0.1752	0.0698	1.0000				
gdp_pc	0.3730	-0.0290	0.4438	0.2809	1.0000			
foreign_pop	0.2891	0.0071	0.3122	0.1420	0.6193	1.0000		
mayor_lr	-0.2325	-0.2174	-0.2350	-0.1937	-0.2043	-0.4076	1.0000	
city_state	0.3820	0.1540	0.4035	0.2211	0.0986	0.1483	-0.1596	1.0000

67 .
68 . estpost corr policy status services population gdp_pc foreign_pop mayor_lr city_state, matrix listwise

	e(b)	e(rho)	e(p)	e(count)
policy				
policy	1	1		92
status	.3819537	.3819537	.000172	92
services	.9465345	.9465345	5.33e-46	92
population	.0540395	.0540395	.6089199	92
gdp_pc	.3730309	.3730309	.0002501	92
foreign_pop	.2890993	.2890993	.0051904	92
mayor_lr	-.2325496	-.2325496	.0256999	92
city_state	.3819537	.3819537	.000172	92
status				
status	1	1		92
services	.1851484	.1851484	.0772433	92
population	.1751541	.1751541	.0949223	92
gdp_pc	-.0289967	-.0289967	.7837914	92
foreign_pop	.0071498	.0071498	.9460706	92
mayor_lr	-.2174034	-.2174034	.0373683	92
city_state	.154023	.154023	.1426755	92
services				
services	1	1		92
population	.0697606	.0697606	.5087551	92
gdp_pc	.4438078	.4438078	9.37e-06	92
foreign_pop	.3121816	.3121816	.0024496	92
mayor_lr	-.2350183	-.2350183	.0241283	92
city_state	.4035285	.4035285	.0000665	92
population				
population	1	1		92
gdp_pc	.2808897	.2808897	.0066839	92

foreign_pop	.1420286	.1420286	.1768485	92
mayor_lr	-.1936809	-.1936809	.0643308	92
city_state	.2211479	.2211479	.0341345	92
gdp_pc				
gdp_pc	1	1		92
foreign_pop	.6193327	.6193327	4.67e-11	92
mayor_lr	-.2042549	-.2042549	.0508196	92
city_state	.0986257	.0986257	.3496164	92
foreign_pop				
foreign_pop	1	1		92
mayor_lr	-.4075683	-.4075683	.0000552	92
city_state	.1482519	.1482519	.1584372	92
mayor_lr				
mayor_lr	1	1		92
city_state	-.1596048	-.1596048	.1285853	92
city_state				
city_state	1	1		92

69 . eststo corr

70 . esttab corr using corr_tab.rtf, unstack not noobs compress
 file corr_tab.rtf already exists
r(602);

end of do-file

r(602);

71 .